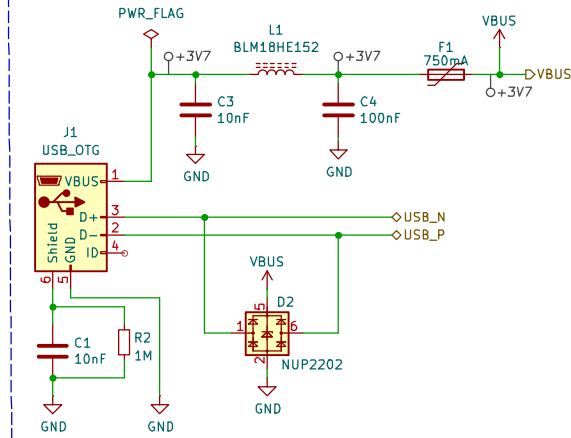
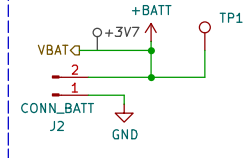


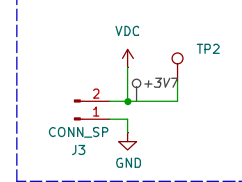
## USB-C Input Protection & Filtering



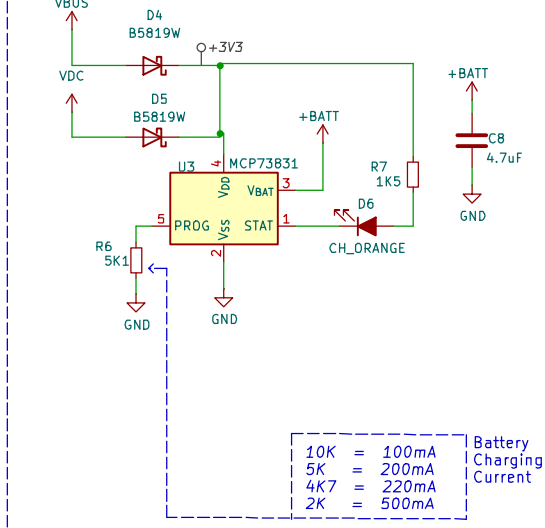
## 3.7V LiPo/Li-ion Battery Input



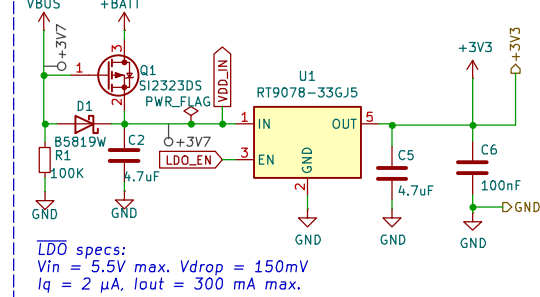
## Solar Cell Input



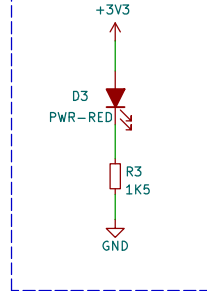
## Battery Charging



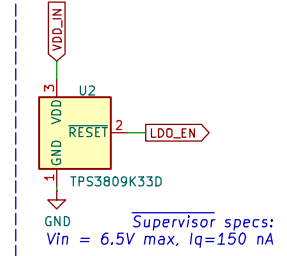
## +3.3V LDO Regulator & Protection



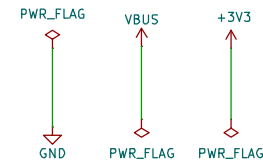
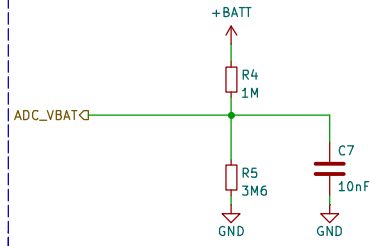
## Power ON LED



## Battery Supervisor +3V3 Cut-Off



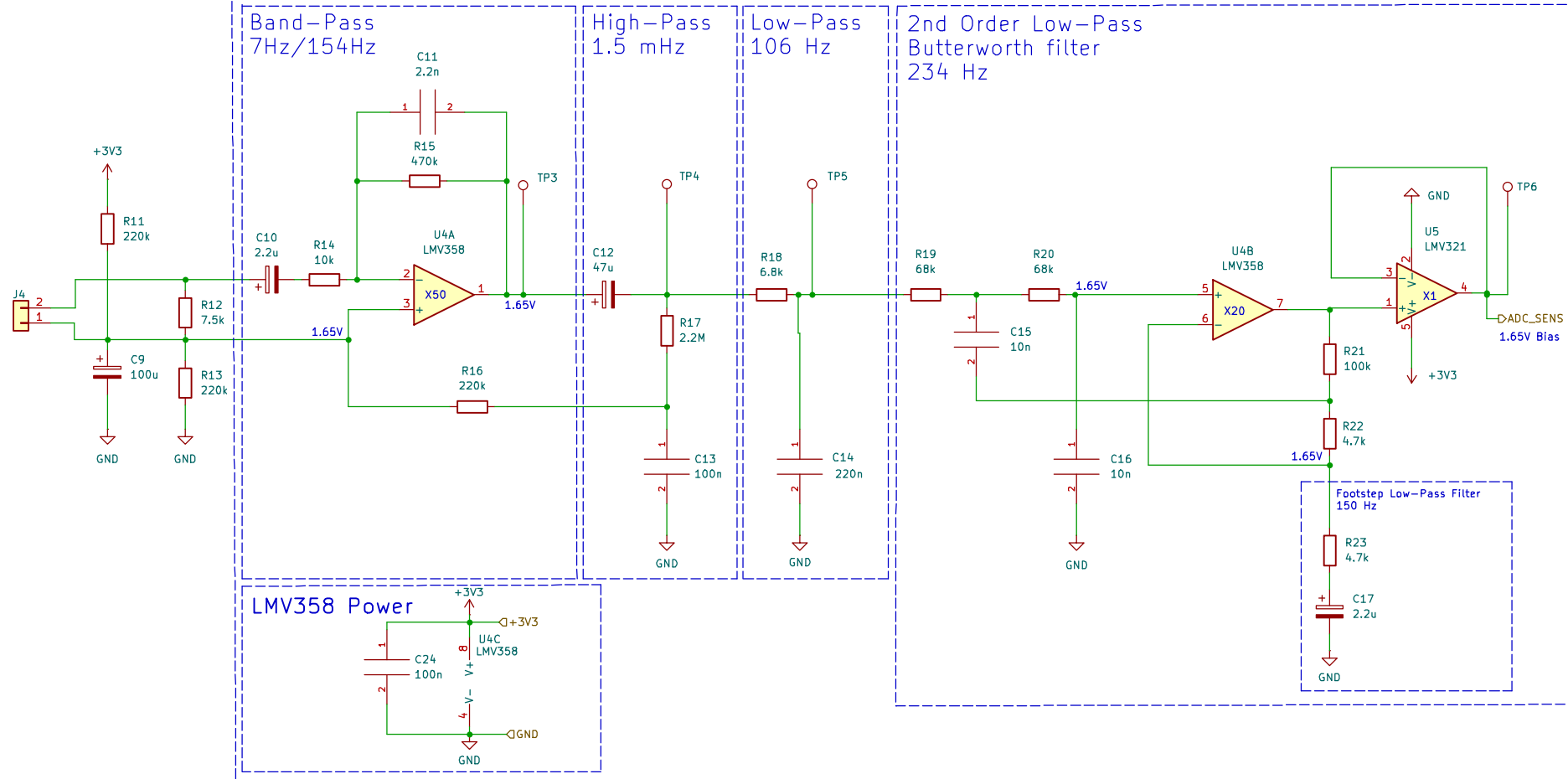
## Battery Monitoring



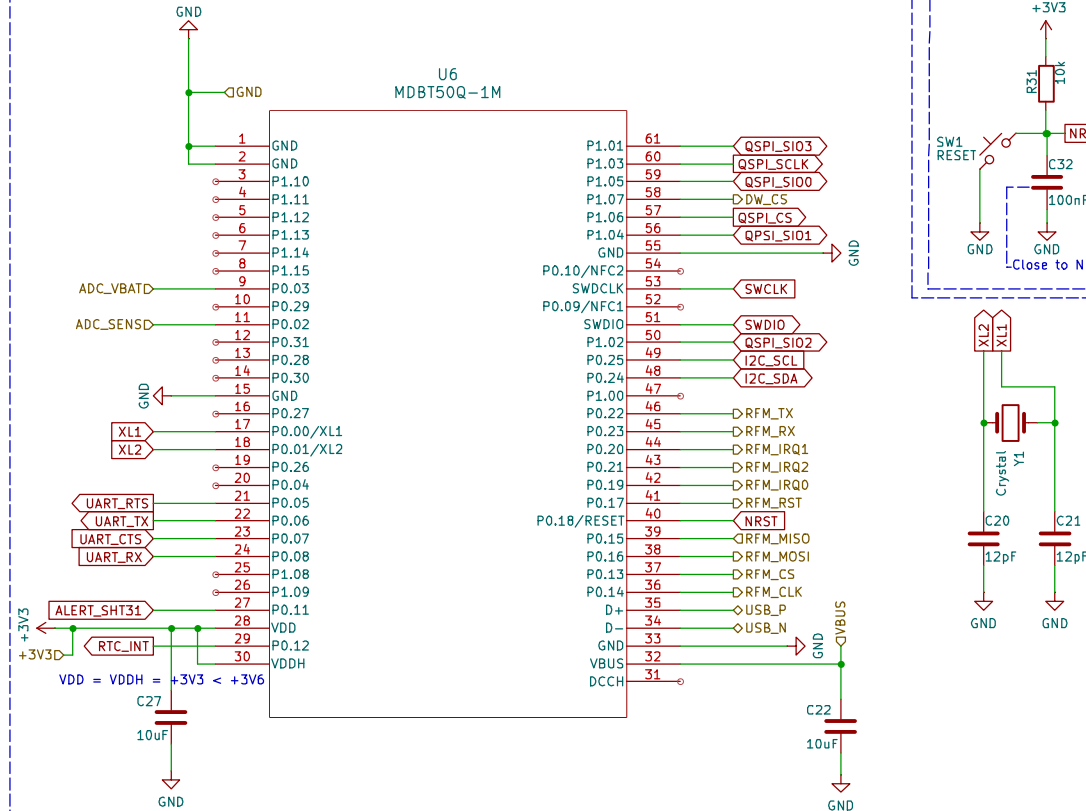
## Filtering and Amplifying

Frequency response : Approx. 5Hz to 150Hz (QUCS simulation approx. 10Hz to 215Hz)

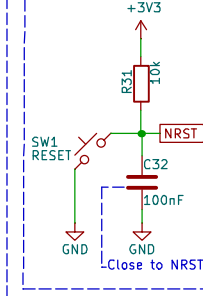
Max gain in bandwidth : at 40Hz -> +58.7dB (QUCS simulation)



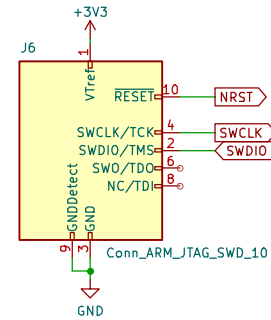
## MDBT50Q-1MV2 (nRF52840)



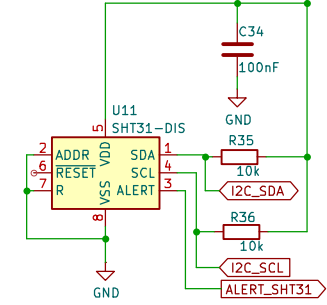
## RST Buttons



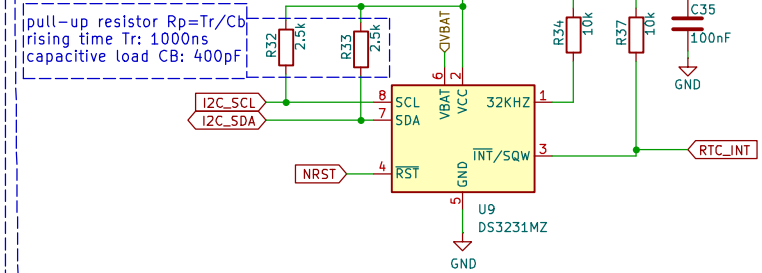
## JTAG SWD Connector



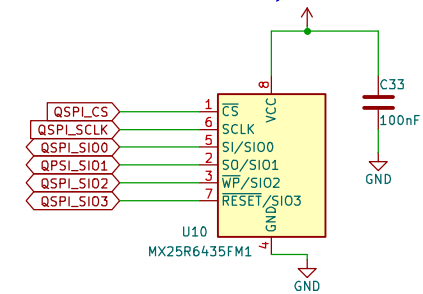
## Sensor Device I2C address: 0x44



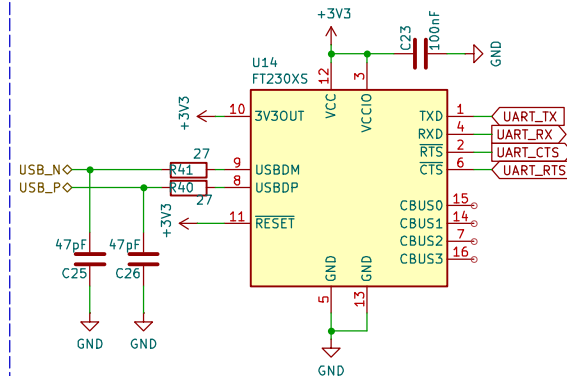
## External RTC I2C address: 0x68



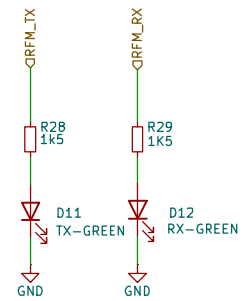
## EEPROM Serial Memory



## USB-UART Converter



## RGB LED



## RFM95W Module

